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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|----------------------|------------------|
| 09/937,275 | 03/04/2002 | Nacerdine Azzi | RCA 89433 (PF990009) | 8474 |
| 7590 | 06/09/2005 | | EXAMINER | |
| Joseph S Tripoli Thomson Multimedia Licensing PO Box 5312 Princeton, NJ 08543-5312 | | | DONG, DALEI | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2879 | |

DATE MAILED: 06/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

| | | |
|------------------------------|------------------------|------------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 09/937,275 | AZZI ET AL. |
| | Examiner Dalei Dong | Art Unit 2879 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 06 January 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-3 and 6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-3 and 6 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 24 September 2001 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

| | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____. | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____. |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 6, 2005 has been entered.

Drawings

2. Figure 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. The abstract of the disclosure is objected to because the abstract contains the word "comprising" and it should be changed to "including". Correction is required. See MPEP § 608.01(b).

4. Applicant is reminded of the proper language and format for an abstract of the disclosure. The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,166,484 to Okuyama in view of U.S. Patent No. 4,152,685 to Renders.

Regarding to claim 1, Okuyama discloses in Figures 1, 6, 7 and 9, a electromagnetic deflection unit (1) for color cathode-ray tubes, comprising a pair deflection coils and a pair of line deflection coils, the pair of frame deflection coils having a shape of a saddle (shown in Figure 7), each saddle shaped deflection coil extending along a longitudinal axis Z and having a rear bundle on the side face (22) of the electron gun (54) and a front bundle on the side (21) facing the screen (51), having a window (shown in Figure 7) in an intermediate region lying between the bundles, two lateral harnesses of conductors connecting the front bundle to the rear bundle (shown in Figure 7), each lateral harness comprising a plurality of group of conductors (coils), wherein the external edge of the lateral harness has a first portion (measurement d shown in Figure 1) in the front part of the coil and has a second portion (measurement a substrate measurement d shown in Figure 1) lies in a radial angular position close to zero that extends from the rear part (22) of the coil to a point lying within the intermediate region, the second portion (measurement a substrate measurement d shown in Figure 1) having a length equal to or greater than two thirds of the length of the saddle-shaped deflection coil along the axis Z (see column 12, lines 13-42).

However, Okuyama does not specifically disclose a first portion of the lateral harness lies in a radial angular position greater than 5° in the front part of the coil.

The Renders reference teaches in Figures 2C-E and 3C-E, a electromagnetic deflection unit for a color cathode-ray tube comprising: a lateral harness wherein the first portion lies in a radial angular position greater than 5 degrees in the front part of the coil (column 2, line 40 to column 3, line 15) for the purpose of improving the accuracy of the

electron converging on the display screen and enhancing a horizontal deflection efficiency, and eliminating a color shift of a convergence at a peripheral portion and an intermediate portion of a tube surface.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have construct the vertical deflection coil of Okuyama with radial angular position greater than 5° according to Renders in order to improve the accuracy of the electron converging on the display screen and enhances a horizontal deflection efficiency, and eliminates a color shift of a convergence at a peripheral portion and an intermediate portion of a tube surface.

Regarding to claim 2, Okuyama discloses in Figures 1, 6, 7 and 9, the saddle-shaped coils are the vertical deflection coils (3).

Regarding to claim 3, Okuyama discloses the claimed invention except for the 7th-order harmonic of the potential is positive at the front of the coils, the Examiner asserts that the 7th-order harmonic is merely a property of the cathode ray tube and the prior art of record discloses the claimed invention. Further, it has been held that the property of a claimed apparatus does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations (see MPEP 2114).

Regarding to claim 6, Okuyama discloses in Figures 1, 6, 7 and 9, the external edge of the lateral harness in the front part of the coil remains in an approximately constant radial angular position (shown in Figure 1).

Response to Arguments

7. Applicant's arguments with respect to claims 1-3 and 6 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following prior art are cited to further show the state of the art of composition of an electromagnetic deflection unit for a color cathode-ray tube.

U.S. Patent No. 6,577,053 to Azzi.

U.S. Patent No. 6,624,560 to Usami.

U.S. Patent No. 6,690,105 to Azzi.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalei Dong whose telephone number is (571)272-2370. The examiner can normally be reached on 8 A.M. to 5 P.M..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on (571)272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



D.D.

June 6, 2005



Joseph Williams
Primary Examiner
Art Unit 2879